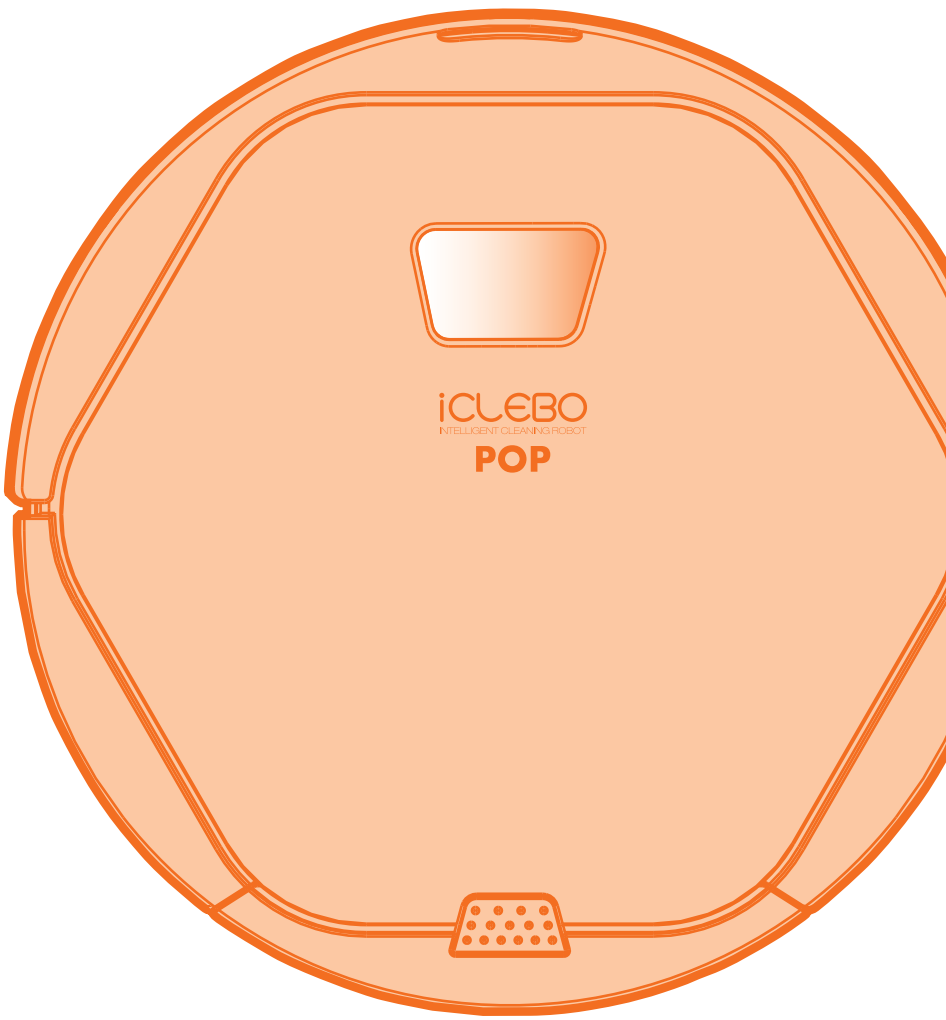
YUJIN ROBOT

iCLEBO
INTELLIGENT CLEANING ROBOT
POP

YCR-M05

User Guide

Vacuum Cleaning Robot iCLEBO POP



- Please be sure to read the **SAFETY PRECAUTIONS** before use.
- Please keep the packing box for further customer service needs.

www.iclebo.com/english

CONTENTS

SAFETY PRECAUTIONS ---- 2

COMPONENTS AND DETAILED NAMES ---- 5

REFERENCE

Remote control ---- 6

Details for best cleaning

Operation principles of robot vacuum cleaner

- Principles of running
- Principles of vacuuming

INSTALLING THE ROBOT CLEANER

Check list before using ---- 8

- Assemble side brush
- Insert remote control battery
- Assemble ultra microfiber mop

Check list before cleaning ---- 9

- Install home station
- Charging

USAGE OF ROBOT CLEANER

Using the robot cleaner ---- 10

- Start/stop cleaning
- Set cleaning time
- Movement / Manual cleaning / Auto-charging

CARE & MAINTENANCE

- Emptying dust bin and servicing the antibacterial filter ---- 12
- Cleaning main brush
- Cleaning side brush
- Cleaning sensors
- Cleaning front-wheel

STORAGE ---- 14

CHECK BEFORE REPAIR REPORT ---- 15

DISPLAY CHECK MESSAGE ---- 16

This content is for the user's safety and to prevent any property loss.
Read the below carefully and use it with care.

Prohibition	Users must be aware of necessary details for using this product.
Warning	Users must follow the instructions to avoid serious injury or death.
Caution	Users must follow the instructions to avoid light injury or product damage.

Precautions related to power

Warning

- **Do not force to bend the power cord or pressure it with heavy weight.**
  → It may cause electric shock or fire.
- **Keep the pin and interface of the power plug clean from dust or water.**
  → It may cause malfunction or electric shock.
- **Do not pull the power cord or touch the power plug with wet hands.**
  → It may cause electric shock or fire.
- **Do not use damaged power plug or power cord, loose outlet.**
  → It may cause electric shock or fire.
- **In case the water went inside the product, you must contact service center for check-up even the product was dried thoroughly.**
- **Do not put or pull the power plug consecutively.**
  → It may cause electric shock or fire.
- **In case of direct charging with adapter, connect the adapter to the charging socket of robot cleaner properly.**
  → It may cause electric shock or fire.

Precautions before using

Prohibition

- Do not touch the power cord of the charger with wet hands.
  → It may cause electric shock.

Warning

- Arrange any cables or wires before use to avoid them being wrapped or caught by the robot
  → It may cause fire or electric shock due to damaged cable.

Caution

- Remove light objects or clothes before use.
  → It may cause barrier or damage the object or clothing while robot is in use.

Caution

- Remove small or fragile objects from the cleaning area before use.
  → Fragile pottery or glass product must be removed.
  → Remove coins or expensive jewelries before cleaning.

Caution

- Clean the objects on the floor.
  → Thin towel, pad, power cord, table cloth, belt placed in front of the bathroom, sink, entrance, utility room may get tangled with the wheel. Also, objects on the table or dining table may fall down.

Caution

- Empty the dust bin before operating the robot cleaner.
  → Suctioning function may not perform well if dust bin is full.

Caution

- Check the main components such as antibacterial filter, brush and dust bin are assembled properly before cleaning.
  → In case you operate the robot cleaner without the main components such as antibacterial filter or brush, it won't clean and it may cause breakdown.

Warning

- Do not operate robot cleaner when children or pets are left alone.
  → Robot cleaner may draw attention from children or pets. The children or pets may hurt themselves by playing with the wheels. If the robot cleaner is distracted while cleaning, it will recognize it as a barrier and certain areas may not be cleaned.

Caution

- Do not expose the power cord on the floor when installing charging station.
  → Robot cleaner may drag the power line while auto-charge or cleaning.

Warning

- Keep the top of the charging station away from water.
  → It may cause electric shock or fire.

Precautions while using

Warning
- In case the robot cleaner has unusual sound, smell or smoke turn off the robot immediately and place well away from flammable objects.
  → It may cause electric shock or fire.

Caution
- Do not use the robot cleaner on the table or any place high.
  → It may damage the product.

Caution
- In case of particular hardwood floor, scratch or damage may occur while using the product according to its material. Stop using in this case.

Caution
- In case plastic bin or big foreign substance was suctioned, remove it immediately.
  → It may cause serious damage to the robot cleaner when it's used for a long period with its suction duct clogged.

Caution
- Transfer the robot cleaner to other area when it's blocked by threshold of the entrance or porch while operating.

Caution
- Prevent the robot cleaner from suctioning liquid materials.
- Do not use the robot cleaner near flammables such as cigarette, hot materials or gasoline.
  → It may cause fire.

Caution
- Do not use it for outside.

Precautions after using

Warning
- In case foreign substance is stuck on the sensor part, it may malfunction. Please clean the sensor regularly.

Warning
- In case of cleaning the foreign substance, turn OFF the power switch then use cleaning brush to remove.
  → If the robot cleaner operates all of the sudden, it may cause injury or serious damage to the product.

Warning
- In case the robot cleaner or components are destroyed, contact the manufacturer or service center for check-up.
  → It may cause electric shock or fire.

Warning
- In case of cleaning the charging station, pull out the power plug first for safety reasons.

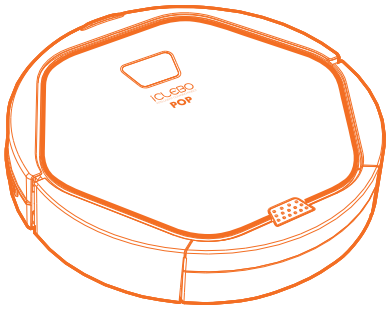
Warning
- Mishandling the battery may cause an explosion or fire. At the end of service life return the battery to an official disposal point.
  → It may cause fire.

Caution
- Do not spray water directly or wipe the robot cleaner with volatile materials such as benzene, thinner or alcohol when mending the product.

Caution
- Do not force to press or pressure the bumper.
  → In case the bumper sensor is damaged, it may crash on the wall or with furniture.

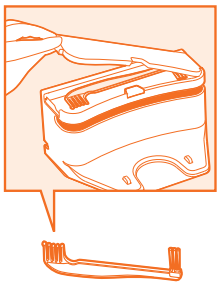
Caution
- Do not disassemble, repair or convert the product except for the assigned service staff from our company.
  → It may damage the product.

Components



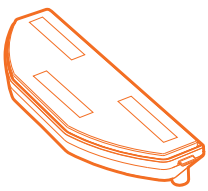
Robot Vacuum cleaner

Charging station

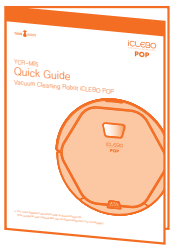


Cleaning brush
(Cleaning brush is contained inside of charging station)

Side-brush

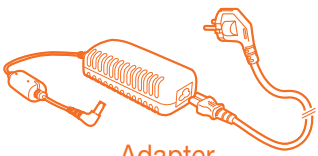


Mop plate



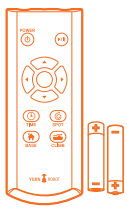
Quick Guide

User Guide(CD)

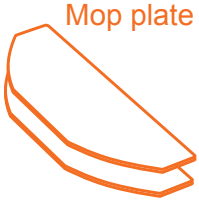


Adapter

Antibacterial filter



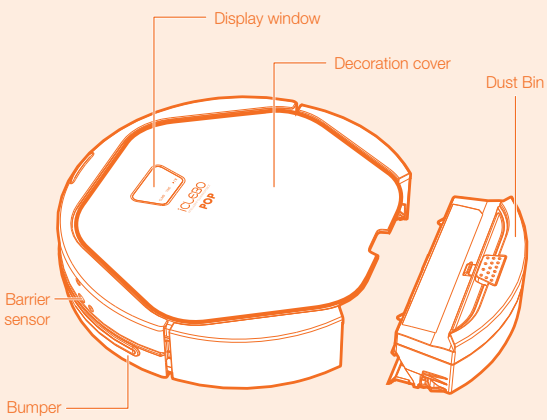
Remote control
(included battery)



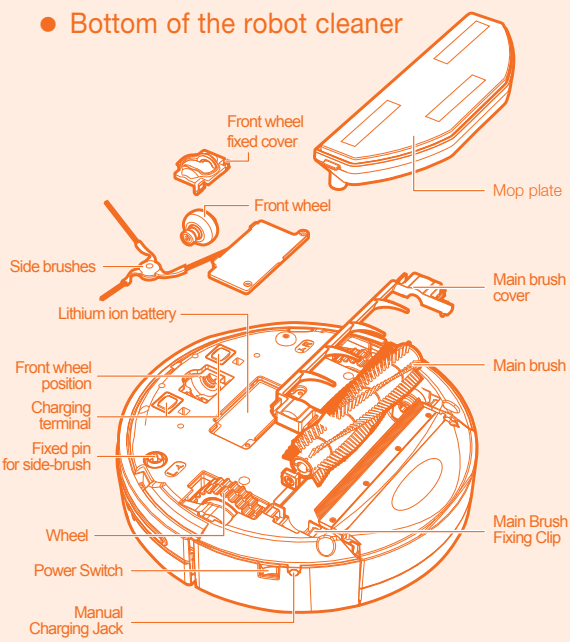
Ultra microfiber wet mop

Detailed names of each part

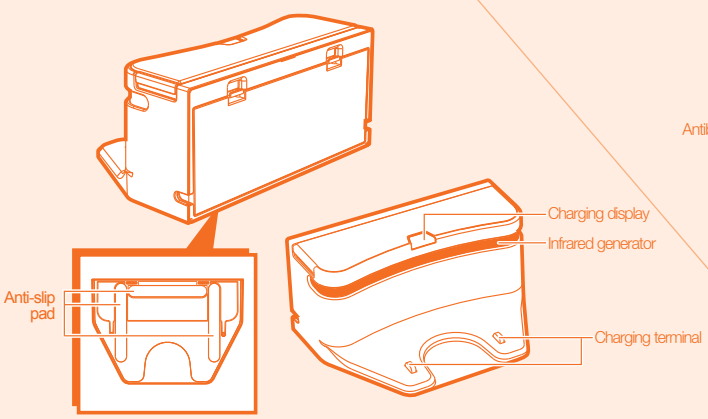
● Top of the robot cleaner



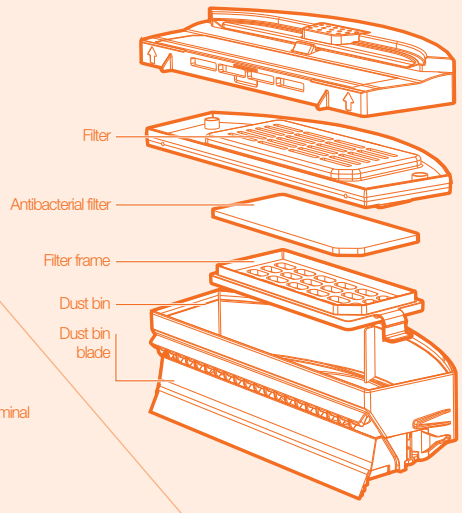
● Bottom of the robot cleaner



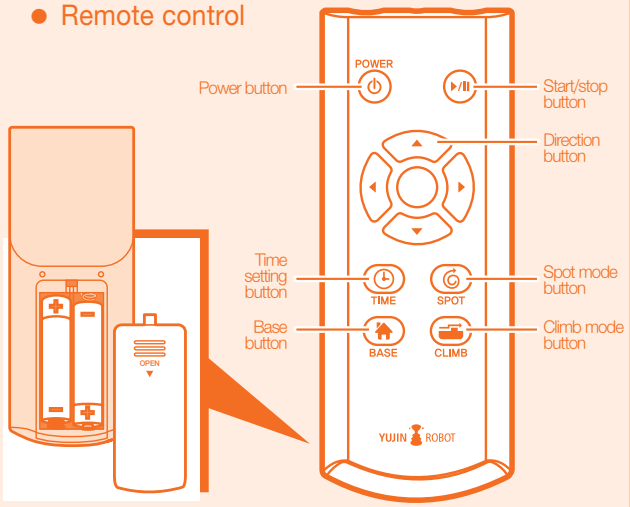
Charging station



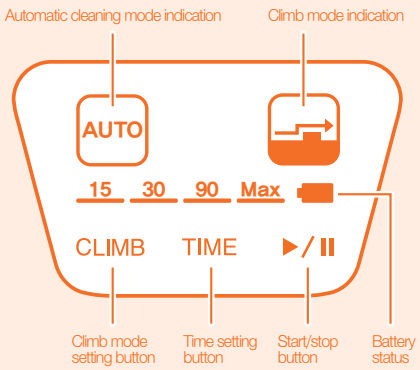
Dust bin



Remote control



Display screen



Using remote control

1. Press start/stop(▶/II)button of the remote controller.
2. Press start/stop(▶/II) button or power button to stop cleaning
3. Operating spot mode(**SPOT**) is only available by remote control
4. When Base button(**BASE**) of remote control is pressed during cleaning cycle, POP will return to Charging station and charging will start automatically
5. By pressing the Power button(**POWER**) of remote control, the display window will be turned off.

Details for best cleaning

Please follow the instructions below for high cleaning efficiency.

- Empty the dust bin after each use of the robot cleaner.
- Remove all the non-fixed objects such as toys, magazines or shoes before cleaning.
- Please do not lift or move artificially when the robot is operating.
- Make sure to charge with manual charging for at least 1 hour before using the vacuum cleaning robot for the first time.
  (Refer to P.9 How to charge manually)

Operating principles of robot cleaner

Principles of running

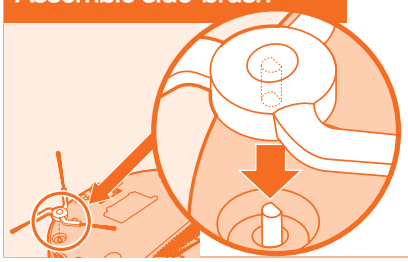
iClebo POP operate Random and Spot cleaning mode with recognizing obstacles via various sensors. With about 20 detection sensors, it can avoid walls or objects (chair, vase, etc)
It climbs a doorsill of up to 18mm, and floor sensors help it to avoid falling down stairs. Be careful that pets or children do not force the robot to fall by playing with it.

Suction of robot cleaner

This product has a main brush, side-brushes and vacuum suction duct. The dust on the floor is gathered by the rotating side brush, and is swept into the dust bin by the rotating main brush.

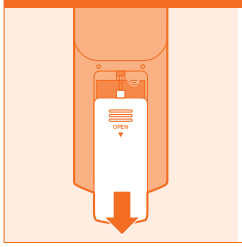
Check list before using

Assemble side-brush



1. After flipping over the vacuum cleaning robot, verify the positions of the side brush.
2. Match the side brush in the same direction of the groove, and push in hard.

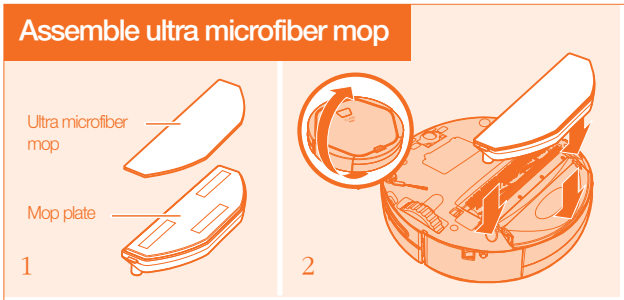
Insert remote control battery



There is no battery inside the remote controller at the time of purchase. Install 2 x AAA batteries before using it.

1. Push the cover of the backside of the remote control downward to open.
2. Check (+)(-) of the battery and assemble.
3. Match the cover to the groove, and close until “click” sounds.

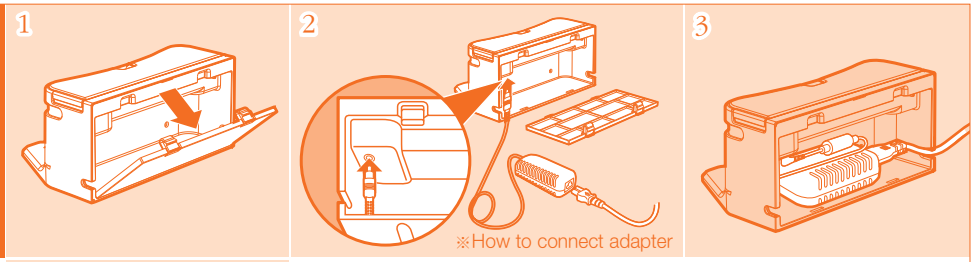
Assemble ultra microfiber mop

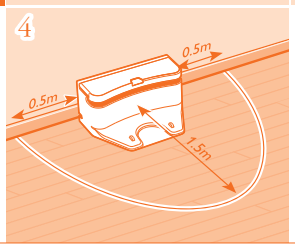


1. Turn over the vacuum cleaning robot, and install the mop plate by combining it to the fixing part of the main body.
2. If mopping mode is not used, separate and keep the mop plate separate from the main body.

Precaution before using

Installation of charging station

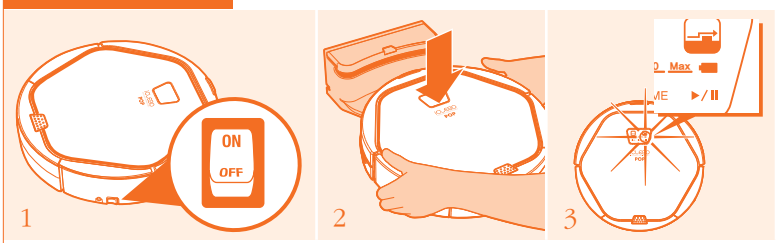




Open the cover of the backside of the charging station, and install the adapter with connected power plug as in the figure.

Charging

Battery is discharged at the time of the purchase of the product, so it must be fully charged before using the robot for the first time.



1. Turn on the power switch on the side of the product.
2. Match the charging pin on the bottom of the main body with the socket of the charging station correctly, and the robot changes to charing mode.

▶▶ Robot starts to charge with blinking battery status on the display window.

※ Change of the Charging Indicator status on Charging Station
Red: robot cleaner is in operation away from the docking station, or the charging connector between the cleaner and docking station is not properly connected.
Green Blinking: Recharging (Remaining battery is 40% or less)
Green: Recharge completed (Battery is fully charged or over 40% charged)

3. The battery is fully charged, the battery status on display will be green.

[Auto-charge during use]

※ When the battery is low during an operation, this product moves to the charging station and performs auto charging.
※ If the base button of the remote control is pressed, it finds and moves to the charging station and starts charging.

Usage of Robot Cleaner

Start/stop Cleaning

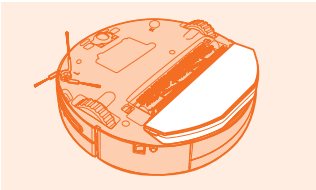
● Basic cleaning

1. Press Start/Stop(or Power) button. (▶/Ⅱ) (Turn on with alarm sound)
2. Press Start/Stop button again. (▶/Ⅱ) (the robot is preset for 90 minutes in normal and starts work in random.)

ORDER	1	2
Body	▶/Ⅱ Start/Stop button	▶/Ⅱ Start/Stop button
Remote control	▶/Ⅱ Start/Stop button	▶/Ⅱ Start/Stop button

● Wet mopping

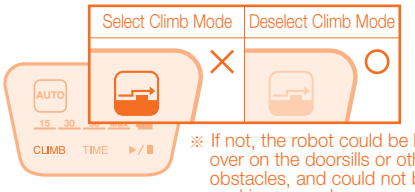
1. Turn over the robot as shown in the picture.



2. Attach mop on the mop plate after microfiber wet mop soaked in water and then wrung out.
3. Turn over the clearning robot body to its normal position and press the start button (▶/Ⅱ) twice please.

ORDER	1	2	3
Body	Install the wet mop on the body	▶/Ⅱ Start/Stop button	▶/Ⅱ Start/Stop button
Remote control	Install the wet mop on the body	▶/Ⅱ Start/Stop button	▶/Ⅱ Start/Stop button

❗ Please deselect climb mode if you wish to use the robot in mopping mode (after installed mop plate on the bottom)



※ If not, the robot could be hanged over on the doorsills or other obstacles, and could not be working properly.

● Spot Mode

Spot (Spiral) cleaning mode, it moves in spiral around within 1.5m radius.

1. Press Start/Stop button. (▶/Ⅱ)
2. Press spot mode button. (SPOT)
1. Press Start/Stop button. (▶/Ⅱ)

ORDER	1	2	3
Body	※ set up spot mode is only possible via remote control		
Remote control	▶/Ⅱ Start/Stop button	SPOT	▶/Ⅱ Start/Stop button

※ During spot mode operation, the time indicator light will blink in order

● Max mode

In Max mode, robot works until the battery is exhausted.

1. Press Start/Stop button. (▶/Ⅱ)
2. Press the time setting button(TIME) until a light on the letter Max displays(Max) on the window
3. Press Start/Stop button. (▶/Ⅱ)

ORDER	1	2	3
Body	▶/Ⅱ Start/Stop button	TIME + Max Set Max mode via time button	▶/Ⅱ Start/Stop button
Remote control	▶/Ⅱ Start/Stop button	TIME + Max Set Max mode via time button	▶/Ⅱ Start/Stop button

● Climb (Carpet) mode

The default climbing height of obstacles for the robotic vacuum cleaner is up to about 5 mm.
If you wish to set the robot to go over obstacles over 5mm or doorsill, etc., click CLIMB button to turn on CLIMB mode!
: Please do not use CLIMB mode if you wish to protect your luxurious carpet or rugs, etc.
If you press CLIMB button of the remote control, the Performance of the climbing can be increased up to 18mm.
(But, there may be differences according to the environment, Such as the structure of the doorsill, etc.)

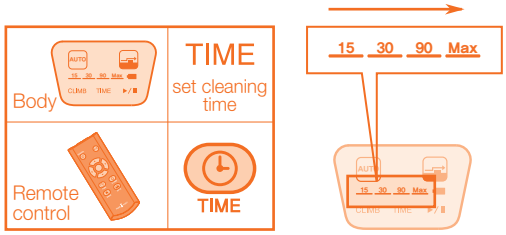
1. Press Start/Stop button. (▶/Ⅱ)
2. Press climb mode(CLIMB) button
3. Press Start/Stop button. (▶/Ⅱ)

ORDER	1	2	3
Body	▶/Ⅱ Start/Stop button	CLIMB climb mode button	▶/Ⅱ Start/Stop button
Remote control	▶/Ⅱ Start/Stop button	CLIMB	▶/Ⅱ Start/Stop button

Set cleaning time

● Set cleaning time

Press time button to set cleaning time(TIME).
Every time you press the button, the time will be changed according to following order (15 minutes - 30 minutes - 90 minutes - MAX)



Movement / Manual cleaning / Auto-charging

● Manual controlling (moving)

If you want to move a cleaning robot to the particular area, use the arrow keys on the remote control.
- When you press the backward button, the cleaning robot rotate at same place and change direction
- If you press the direction buttons when power is on, it will only move without cleaning (vacuum)

● Manual cleaning

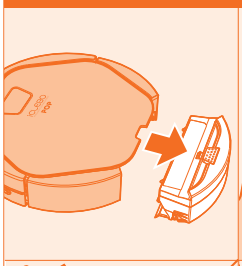
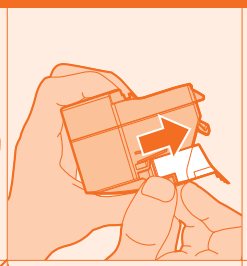
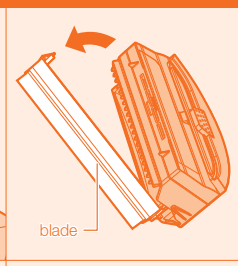
After starting the cleaning, press the direction buttons on the remote control.
if then, clean the specific area or direction by remote control

● Auto-charging

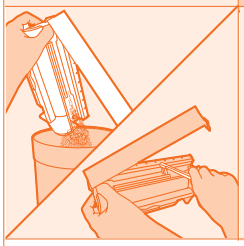
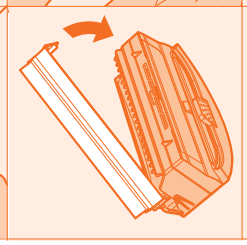
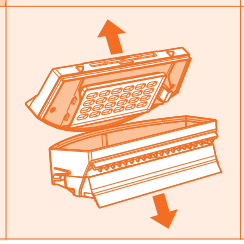
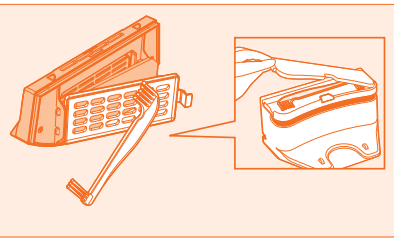
the cleaning robot navigates to the charging station and charges automatically when you press the base button on the remote control.

※ display window is activated by pressing any of the buttons on the main body or by using the remote control

Emptying dust bin and servicing the antibacterial filter

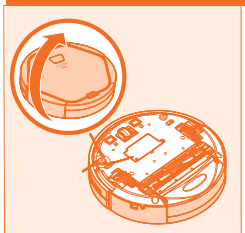
1. While pressing the dust bin's out button of the main body as shown in the figure, carefully separate the dust bin toward the back.
2. Hold the blade of the dust bin as in the figure, and dust off the litter.
3. Shake the dust bin left/right to remove the waste inside. Clean the inner part of the dust bin using cleaning brush.

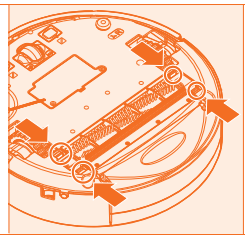
4. After closing the blade, hold the dust bin as in the figure, and separate the sterilization filter cover.
5. Dust the filter using cleaning brush.
   (cleaning brush is in the charging station. Please open the top cover of docking station)

※ Dust bin can be washed with water. But, completely dry them before assembling and using them again.

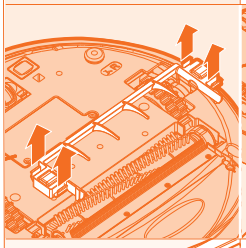
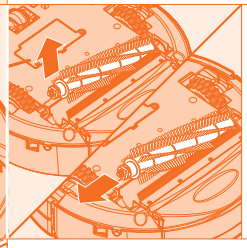
Cleaning Main brush



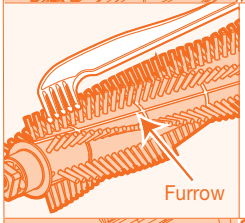
1. Empty the dust bin first.
2. Turn the robot cleaner over and place the bottom facing upright.



3. Unlock left/right fixed clip of the main brush cover.

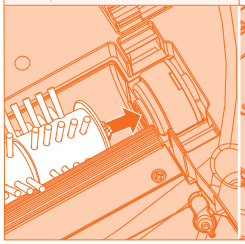
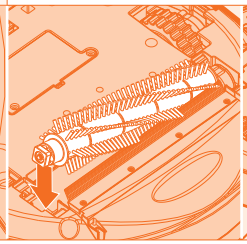
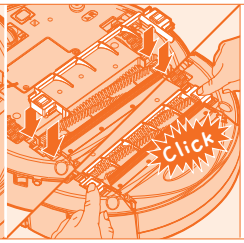



4. Separate the brush cover then remove the main brush.



5. Clean the hair or foreign substances stuck on the main brush using the cleaning brush. After each cleaning session, remove hairs or foreign substances stuck on the main brush using the cleaning brush. Over time, hairs and fibers accumulate between the main brush and the bearing. This extra friction makes the cleaning less efficient, wears the battery out faster, gives shorter run times and can eventually block the robot. Pull off the main bearing and remove foreign matter.

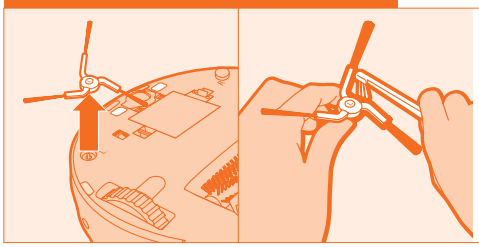
※ Use scissors or knife along the main brush furrow to remove the hair easily.

6. After cleaning, put the pyramid-shaped bump on the side of the main brush to the pyramid-shaped recess on the drive cam. (Insert firmly to ensure there is No gap between the brush and the cam.)

※ Note: be careful not to lose the square bearing which is attached to the end of the main brush once you pull it out for cleaning the main brush.

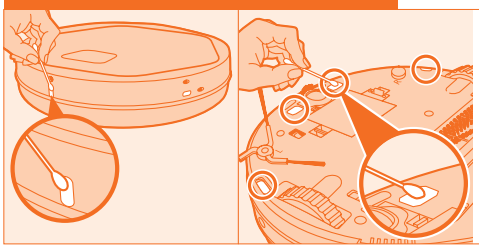
Cleaning Side-brush



1. Separate the side-brush with both hands.
2. Clean dust and foreign substance using the cleaning brush.

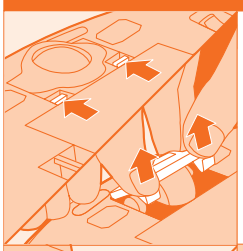
※ When disassembling the side brush, hold the whole three strip brushes together at the same time and pull it out.

Cleaning Sensors

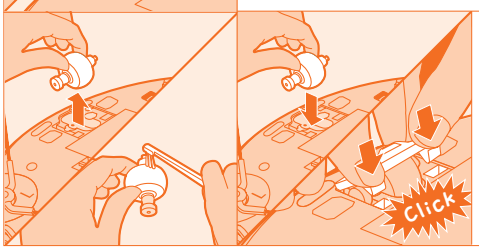


1. Wipe the sensors on the front bumper of the robot cleaner using cotton buds.
2. Wipe the sensors on the bottom of the robot cleaner using cotton buds.

Cleaning Front-wheel



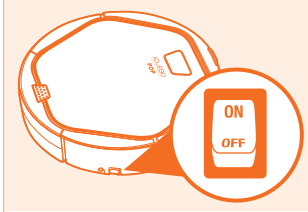
1. Press the front-wheel fix clip with both hands and lift it up to separate.
2. Remove foreign substance on the front brush using the cleaning brush.



3. Pull out the front-wheel then clean dust and foreign substances using the cleaning brush. As for the main brush, remove the bearings to be able to easily remove any hairs or foreign matter on the axle.
4. Put the front-wheel back and re-assemble as shown in the method above.

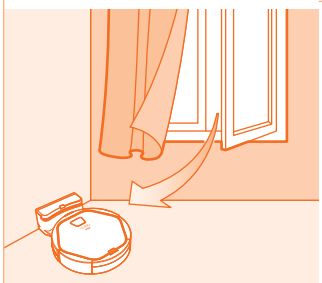
※ Robot vacuum cleaner might not be working normally when the front and bottom cleaning robot sensors are covered by a foreign substance. Cleaning and management is required for all sensors.

Storage



1. If the vacuum cleaning robot is not used for a long period of time, turn off the power switch on the side of the main body.

※ Please be aware that the battery could be discharged.



2. Keep the robot cleaner away from direct sunlight rather place in well-ventilated place.

※ Please do not stay place any objects on top of the robot, it may cause a malfunction

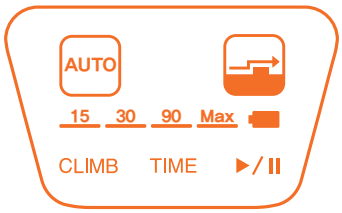
FAQ

If you can’ t solve the problem with information below, please call your Customer service center.

Problem	Cause	Solution
It is not cleaning well.	▶Dust bin is full. ▶Main brush is dirty. ▶Filter is contaminated.	▶See 〈Product control & maintenance〉 and empty the dust bin. ▶See 〈Product control & maintenance〉 and use main brush. ▶See 〈Product control & maintenance〉 and clean the dirty filter.
Power switch is turned off.	▶Battery is low. ▶Battery is not inserted properly into the robot cleaner. ▶It is because main brush is clogged with hair and dust.	▶Re-charge the robot cleaner. ▶See 〈Product control & maintenance〉 and empty the dust bin. ▶See 〈Product control & maintenance〉 and clean the dust bin.
The robot is not responding.	▶Power switch is turned off. ▶Battery of remote controler is out. ▶Infrared sensor & beam part of the remote control is blocked or dirty ▶Remote control is too close to the charging station.	▶Check the power switch on the bottom of the main body. ▶Re-charge the robot cleaner. ▶Insert the battery of robot cleaner properly. ▶Change the battery of the remote control. ▶Wipe the infrared sensor & beam part of the remote control with a soft cloth. ▶Keep a distance from the home station and press the button again towards the robot cleaner.
The robot is not charging.	▶Charging station or robot cleaner is not connected properly to the plug.	▶Check charging station or robot cleaner is connect properly to the plug.
After cleaning, the robot cleaner is not returning to the charging station.	▶Home station or robot cleaner is not connected properly to the plug. ▶Generator & ejector on the home station and detector of the robot cleaner is dirty.	▶Connect the power of the home station properly. ▶Move the home station. No objects must be placed within 50 centimeters left/right, 1.5meters in front of the home station. This is to enable the robot cleaner to return to the home station automatically after cleaning.

Noise of the robot cleaner is getting worse.	▶Dust bin is full or filter is dirty. ▶Main brush is dirty or hairs are accumulating between the main brush and the bearing.	▶Empty and clean the dust bin. ▶See 〈Product control & maintenance〉 (page 12) and clean the filter. ▶See 〈Product control & maintenance〉 (page 12) and clean the main brush.

Display check message



※ During the operation, if the window icons are blinking, please refer to the Checklist below first.

※ Clean the sensors and emptying the dustbin are required at least once a week or once every two weeks. Periodic management will extend the life of the cleaning robot.

Check display	Cause	Solution
AUTO + 15	lifted wheel, or if the floor could not be detected	Move the robot cleaner to flat area in case the wheel is stuck on the threshold or porch.
AUTO + 30	Wheel motor overload	Check if foreign substance such as hair or lint exists on the wheel.
AUTO + 90	Side brush overload	Check if foreign substance such as hair or lint exists on the main brush or side-brush.
AUTO + Max	Main brush or suction motor overload	Empty the dustbin and clean the main brush and filter
▬	Battery exhausted	Please charge

iCLEBO
INTELLIGENT CLEANING ROBOT

POP

Model Name	iClebo POP (YCR-M05)
Power	100V ~ 240V
Standby energy consumption	below 0.1W
Main body energy consumption	10W
Battery	Lithium ion (Li-ion)
Diameter	35 cm
Height	8.9 cm
Weight	2.75 kg
Speed	30cm/s
Filter	Sterilization filter
Sensor	IR, PSD, Encoder, Bumping
Charging Time	100 min.
Usage Time	160 min. (based on normal floor)
Noise Level	60 db

※ Yujin's Robot vacuum cleaners were designed to meet the Energy star energy efficiency standard, it has the best energy efficiency in charging & standby mode.

YUJIN ROBOT